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B. R. Smith
Apr. 98

Illustrated Catalogue,
MILLER & COATES,
1885.

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1885.

ILLUSTRATED CATALOGUE.

PATENT

Universal Float-Valves
AND
Cisterns.

WASH-OUT CLOSETS, FLUSHING-RIM EARTHENWARE,
AND ENAMELLED IRON HOPPERS.

MANUFACTURED BY

MILLER & COATES,

IMPORTERS OF PLUMBERS' MATERIALS, MINTON'S ENCAUSTIC TILES, AND
GARNKIRK CHIMNEY-TOPS.

NO. 279 PEARL STREET, NEW YORK.

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TO THE TRADE.

The Universal Float-Valve, the Lever for giving a single operation of the valve (an after-wash), the Lever for giving a double operation of the valve (a preliminary and an after wash), and the Door-Attachment, all as herein illustrated and catalogued, are the inventions of WILLIAM SCOTT, and are his and our sole property, as exclusive licensees, under him.

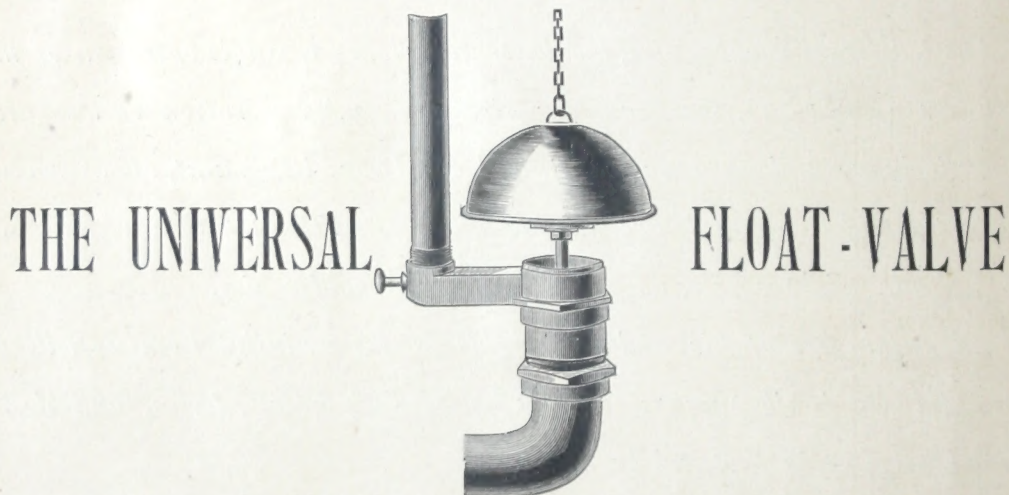
All infringers of his and our rights as the exclusive licensees will be prosecuted; and all purchasers from us of such valves, levers, and door-attachments will be protected by us.

DALTON & INGERSOLL.

BOSTON January 1, 1885.

It is well known, that all Water-Closets require a liberal supply of water to insure cleanliness, and a proper flushing of the trap and soil-pipe ; and it has been proved by experience, that the public cannot be relied upon to properly cleanse a closet, when supplied by a valve which leaves the quantity of water to be discharged discretionary with the user.

Therefore, as a guaranty to perfect cleanliness, it is necessary that all closets should be supplied by valves that are self-operating in their workings.



Is a sure supply-valve, possessing the following advantages over all other valves or flushing appliances : —

It is universal in its applications ; as it can be operated by a pull, seat, door, or any other known method (giving the same result in each case), and can be applied to any form of Hopper or Wash-out Closet.

It is more easily applied than other valves ; as it requires no *service-box* or *supplementary chamber*, and the attachments are of the most simple construction.

It is more durable, having no parts that are affected by *grit* or *corrosion*; it being constructed exactly like a common cistern-valve in all its working-parts, with this exception, a *copper float* being substituted for a lead weight, and requiring so slight a movement to operate it, there is absolutely no strain or friction to produce wear and tear.

It is more positive and reliable in its operation, it having no sensitive parts, as spring, cup, leather, etc., to get out of order.

It is more effective, the water coming direct from the tanks, and not from a supplementary chamber, as is usual with other appliances.

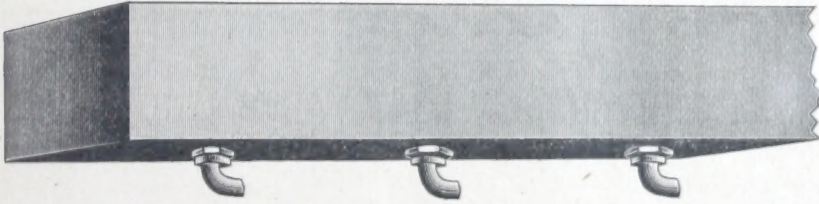
ACTION OF THE VALVE.

The action of the valve is as follows : As it rests upon its seat, the float, or body of the valve, is filled with air ; on being raised from its seat, it floats to the length of its spindle, and remains in this position until the water, entering the float through a hole near the spindle (the air passing out through the hollow spindle), overcomes its buoyancy, and causes it to drop ; after closing, the water is discharged into the closet, as air re-enters the float.

Each valve is furnished with a regulator to govern the amount of water to be discharged.

These fixtures are sold separately, to enable the plumber to make and line his own cisterns; as it is often advisable in *Factories, Schoolhouses, Railroad Depots*, and other places where the closets are in a row, to supply them all from one cistern.

Any number of the fixtures described in pages 8 to 11 can be so arranged.



The cisterns should be made not over 15 inches deep.

$1\frac{1}{4}$ -inch pipe must be used to connect each valve with the closet.

No. 1 UNIVERSAL FLOAT-VALVE AND LEVER.

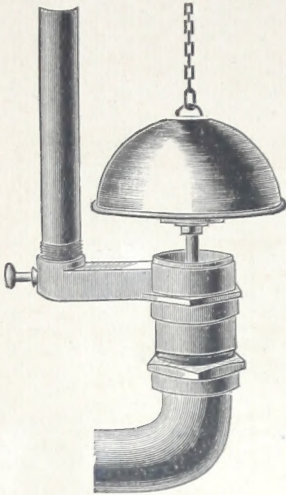
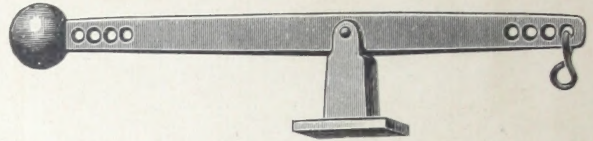


PLATE 1



Price \$5.00

These fixtures are intended for use in lead or copper lined cisterns, to supply *Flushing-Rim Hoppers*, where a simple pull is desired.

For further description, see pages 16 and 17, plates 12 and 13.

N.B. — 1¼-inch pipe must be used to connect with Hopper.

No. 1 UNIVERSAL FLOAT-VALVE AND LEVER, WITH AIR-PIPE ATTACHMENT.

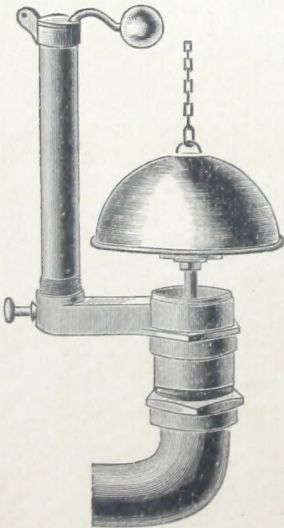
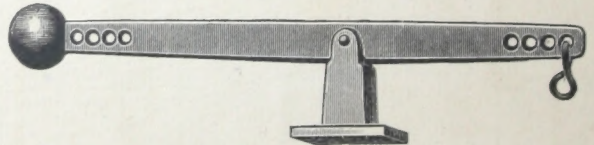


PLATE 2



Price \$5.75

These fixtures are intended for use in lead or copper lined cisterns, to supply *Wash-out Closets*, to be worked by a pull and chain.

For further description, see pages 18 and 19, plates 14 and 15.

N.B. — 1¼-inch pipe must be used to connect with closet.

No. 1 UNIVERSAL FLOAT-VALVE, LEVER, AND No. 1 DOOR-ATTACHMENT.



PLATE 3



Price per set

\$1.25

These fixtures are intended for use in lead or copper lined cisterns to supply water when it is desirable to open the door without it.

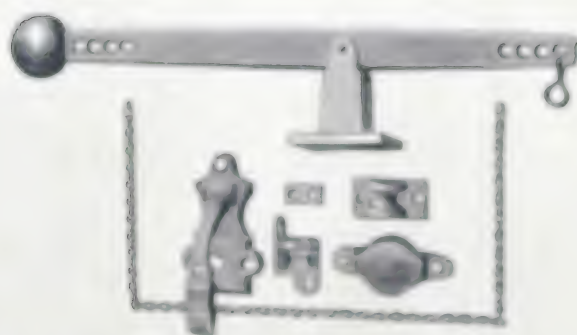
For further description, see pages 14 and 15, plate 11.

N.B. — $1\frac{1}{2}$ -inch pipe must be used to connect to cistern.

No. 1 UNIVERSAL FLOAT-VALVE, LEVER, AND No. 2 DOOR-ATTACHMENT.



PLATE 4



Price per set

\$1.25

These fixtures are intended for same use as plate 3, excepting they are to be operated by the door opening rod.

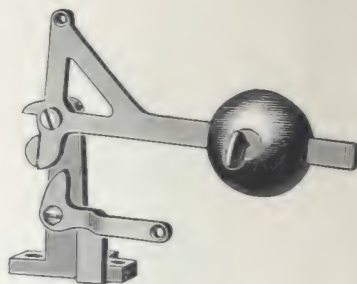
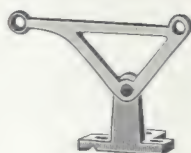
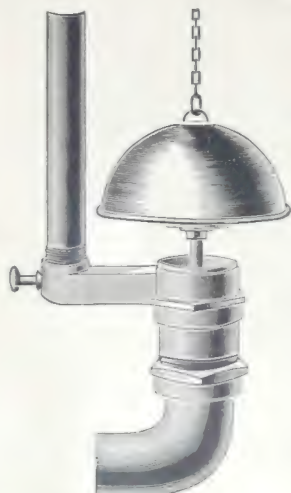
For further description, see pages 14 and 15, plate 11.

N.B. — $1\frac{1}{2}$ -inch pipe must be used to connect to cistern.

No. 2 UNIVERSAL FLOAT-VALVE AND CRANKS.

AFTER-WASH AND WASTE-PREVENTING.

PLATE 5.



Price \$7.50
Price, with air-pipe attachment for wash-out closet. . . . \$8.25

These fixtures are intended for use in lead or copper lined cisterns, to be operated by a pull-chain, and to supply Hoppers and Wash-out Closets.

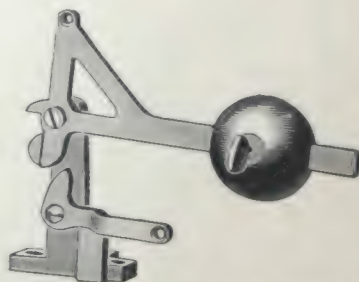
If used in connection with Wash-out Closets, the air-pipe attachment, as described on page 19, should be used. For further description, see pages 20 and 21, plates 16 and 17.

N.B. — $1\frac{1}{2}$ -inch pipe should be used to connect to closet. The cistern should not be over 15 inches deep.

No. 2 UNIVERSAL FLOAT-VALVE AND CRANKS, WITH SEATS.

AFTER-WASH AND WASTE-PREVENTING.

PLATE 6.



	BLACK WALNUT SEAT.	CHERRY SEAT.
Price, with No. 1 seat (plate 8)	\$14.75	\$15.75
Price, with No. 2 seat (plate 9)	13.50	14.50
Price, with No. 3 seat (plate 10)	13.00	14.00

Price, with ornamental bronzed legs, see page 12.

Add for air-pipe attachment, 75 cents.

These fixtures the same in every respect to plate No. 5, but to be operated by the seat.

For further description, see pages 20 and 21, plates 16 and 17.

N.B. — $1\frac{1}{2}$ -inch pipe should be used to connect to closet. The cistern should not be over 15 inches deep.

No. 3 UNIVERSAL FLOAT-VALVE AND LEVER,

PRELIMINARY AND AFTER WASH.

PLATE 7.



Price, with No. 1 seat (plate 8) -

\$15.63

\$26.63

Price, with No. 2 seat (plate 9) -

14.38

24.38

Price, with No. 3 seat (plate 10) -

13.38

23.38

If seats with ornamental bronzed legs are desired, see prices, page 12.

N.B.—These fixtures are not sold without a seat.

These fixtures are intended for use in lead or copper lined cisterns, to be operated by a seat for supplying Flushing-Rin Hoppers.

For further description, see pages 22 and 23, plates 18 and 19.

N.B.—The valve should be connected to lever by the straight piece of brass wire furnished with the apparatus, and no chain or rings should be used.

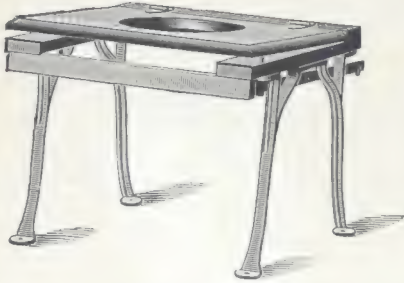
$1\frac{1}{4}$ -inch pipe must be used to connect to hopper.

The cistern should not be over 15 inches deep.

IMPROVED SEATS AND ATTACHMENTS,

TO BE USED IN CONNECTION WITH PLATES 6 AND 7.

PLATE 8.



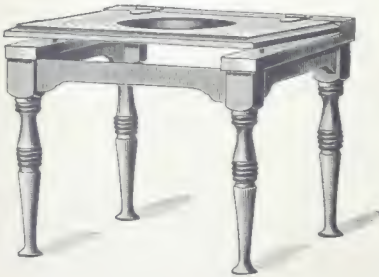
NO. 1 SEAT. WITH GALVANIZED LEGS.

	BLACK WALNUT.	CHERRY.
Price	\$6.25	\$7.25

This seat is intended for use where it is desirable to have the seat independent of the walls or partitions.

PLATE 8½.

NO. 1½ SEAT. WITH ORNAMENTAL BRONZED LEGS.



	BLACK WALNUT.	CHERRY.
Price	\$10.00	11.00

PLATE 9.

NO. 2 SEAT. WITH PAINTED LEGS.



	BLACK WALNUT.	CHERRY.
Price, with painted legs	\$5.00	\$6.00
Price, with ornamental bronzed legs	7.50	8.50

This seat is adapted to places where the back part can be secured to the wall or partition.

PLATE 10.

NO. 3 SEAT (WITHOUT LEGS).



Price LEAD: BATHING: \$4.50 \$5.50

This pattern seat is designed for use in places where it is desired to fill up the entire space occupied by the closet. We furnish the working portion only, leaving the carpenter to complete the work by building on as indicated by the dotted lines.

The *seat* is an important part of all water-closet apparatus that are to be worked by this method, as the perfect working of the operating-parts in the cistern depends in a great measure on a proper construction of the seat and the adjustment of the seat-lever. For this reason only, we insist on furnishing the seats with our apparatus.



These seats are thoroughly made, and are of the best material; and the seat-levers are very simple and strong. They have a double bearing, which prevents any twisting of the seat; and, the *spindles* for working the lever being 16 inches apart, *Urinal Safes*, without spindle-holes, can be used, insuring perfect cleanliness under the safe.

DOOR-ATTACHMENTS.

For *Schoolhouses, Railroad Depots*, and other public places, where a great number of people have access to the water-closets, this method of operating the closets is recognized as the most positive and effective. But the great difficulty has been where *common valves* are used; as the door is simply opened, and at once closed with the aid of a spring, it gives no time for a proper flushing of the closet. And they are also objectionable if the door is held open too long: the water runs all the time, causing a very serious waste.

The *No. 1 Universal Float-Valve and Door-Attachment* overcome these objections.

The valve remains open long enough, whether the door is opened slow or fast, to give an *assured flush* at each movement of the door, the amount of water discharged being governed by the *regulator* in the valve.

The door is connected with the valve, only as it passes the *striker*, thus preventing any waste of water, and, as no stop-chain is needed, admits of the door being thrown wide open if desired.

The attachments are very simple, offer no resistance to the movement of the door, and cannot be put out of gear.

No. 1 A IRON CISTERN and No. 1 DOOR-FIXTURE.
No. 1 EARTHEN HOPPER and No. 1 SEAT.

PLATE 11.

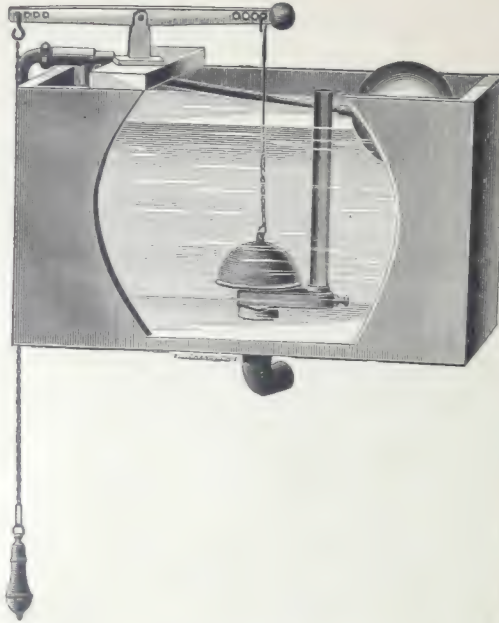


PRICES.

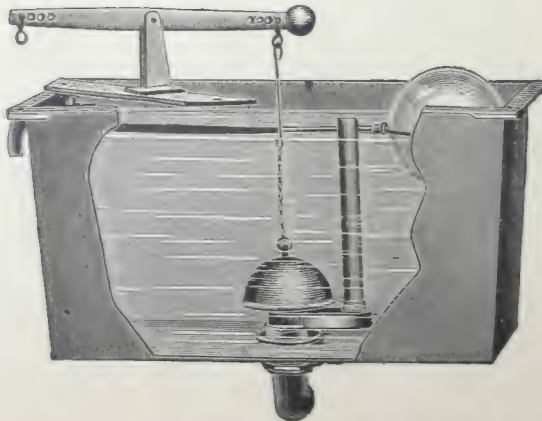
Door-fixtures, only	— — — — —	\$4.50
Door-fixtures, with valve	— — — — —	See page 9, plates 3 and 4.
Door-fixtures, with No. 1A iron cistern complete, as shown in cut	— — — — —	\$18.75
Door-fixtures, with No. 1 copper-lined cistern complete, as shown in cut	— — — — —	11.25

The above cut represents our No. 1 Door-Fixture for door opening in; if it is necessary to have door open out, our No. 2 Fixture should be used.

In ordering, please specify which fixture is desired.

No. 1 SURE-SUPPLY COPPER-LINED CISTERN.**PLATE 12.**

Size, 24 × 13 × 13. Capacity, 16 gallons. Price, \$12.50.

No. 1A SURE-SUPPLY IRON CISTERN.**PLATE 13.**

Size, 22 × 12 × 12. Capacity, 14 gallons. Price, \$10.00.

SURE-SUPPLY COPPER-LINED AND IRON CISTERNS, WITH THE UNIVERSAL FLOAT-VALVE.

These cisterns are designed to supply *Flushing-Rim Hoppers*; a simple pull of the chain discharging the required amount of water, without the necessity of holding it, thus insuring a perfect cleansing of the Hopper and Trap.

The amount of water to be discharged can be governed by the *regulator*.

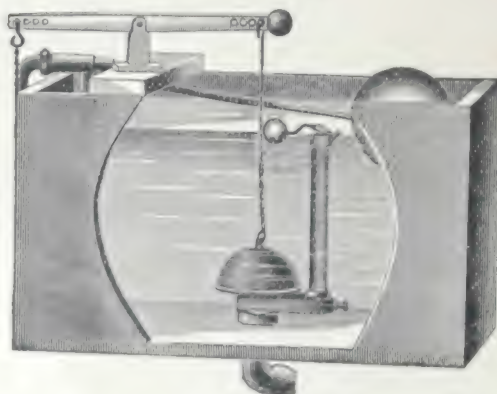
These cisterns can also be used in connection with our door-fixtures, as shown in plates 3, 4, and 11.

See page 6 for description of the action of the valve.

N.B. — $1\frac{1}{4}$ -inch pipe must be used to connect with closets.

No. 1 SURE-SUPPLY COPPER-LINED CISTERN,
WITH AIR-PIPE ATTACHMENT.

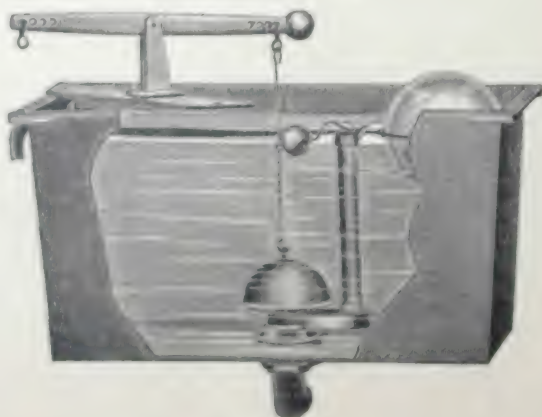
PLATE 14.



Size, 24 X 13 X 13. Capacity, 16 gallons. Price, \$13.25.

No. 1 A SURE-SUPPLY IRON CISTERN,
WITH AIR-PIPE ATTACHMENT.

PLATE 15.



Size, 22 X 12 X 12. Capacity, 14 gallons. Price, \$10.75.

SURE-SUPPLY COPPER-LINED AND IRON CISTERNS,

WITH UNIVERSAL FLOAT-VALVE AND AIR-PIPE ATTACHMENT.



These cisterns are the same as shown on page 15, but with the addition of our *Attachment*, or *governor*, to the air-pipe, and are undoubtedly the best cisterns ever devised for supplying *Wash-out Closets*.

It is not necessary to hold the valve open to discharge enough water to thoroughly cleanse the closet and trap, thus guarding against the carelessness of the user.

The *Air-Pipe Attachment* holds back a portion of the water in the supply-pipe after the valve has closed, thus refilling the catch-basin, from which the water has been driven by the force of the flush.

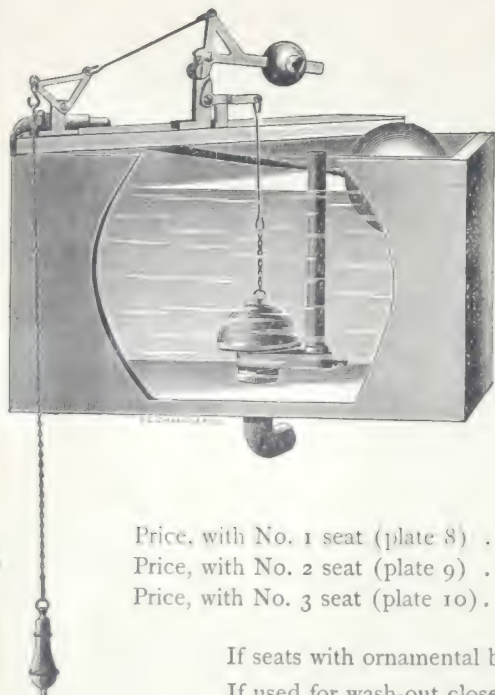
As the success of a Wash-out Closet depends in a great measure upon its being thoroughly flushed out after use, these cisterns should be used in preference to all others.

See page 6 for full description of the action of the valve.

N.B. — $1\frac{1}{4}$ -inch pipe must be used to connect with the closet.

No. 2 AFTER-WASH, WASTE-PREVENTING, COPPER-LINED CISTERN.

PLATE 16.



Size, 24 × 13 × 13.

Capacity, 16 gallons.

Price, with pull-chain, \$15.50.

	BLACK-WALNUT SEAT.	CHERRY SEAT.
Price, with No. 1 seat (plate 8)	\$21.75	\$22.75
Price, with No. 2 seat (plate 9)	20.50	21.50
Price, with No. 3 seat (plate 10)	20.00	21.00

If seats with ornamental bronzed legs are desired, see page 12.

If used for wash-out closets, add, for air-pipe attachment, 75 cents.

No. 2 A AFTER-WASH, WASTE-PREVENTING, IRON CISTERN.

PLATE 17.

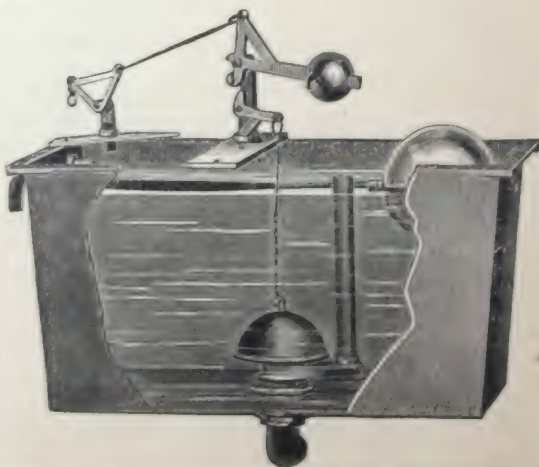
Size, 22 × 12 × 12. Capacity, 14 gallons.

Price, \$13.00.

	BLACK WALNUT.	CHERRY.
With No. 1 seat (plate 8)	\$19.25	\$20.25
With No. 2 seat (plate 9)	18.00	19.00
With No. 3 seat (plate 10)	17.50	18.50

If seats with ornamental bronzed legs are desired, see page 12.

If used for wash-out closets, add, for air-pipe attachment, 75 cent.



AFTER-WASH, WASTE-PREVENTING, COPPER-LINED AND
IRON CISTERNS,

WITH UNIVERSAL FLOAT-VALVE.

These cisterns are worked by either pull and chain or seat, the valve being the same in every respect as in the No. 1 cistern, but operated by our *Patent After-wash Crank*.

We especially recommend this cistern for use where there is a scarcity of water, or where *water-meters* are used; as on pulling the chain, or depressing the seat, you simply put the crank in position to open the valve when the hold on the crank is released, no water being discharged until such action, and then only as much as the valve is regulated to supply, the quantity being governed by the *regulator*.

This is an excellent cistern to use with Wash-out Closets in connection with our Air-Pipe Attachment (see page 19).

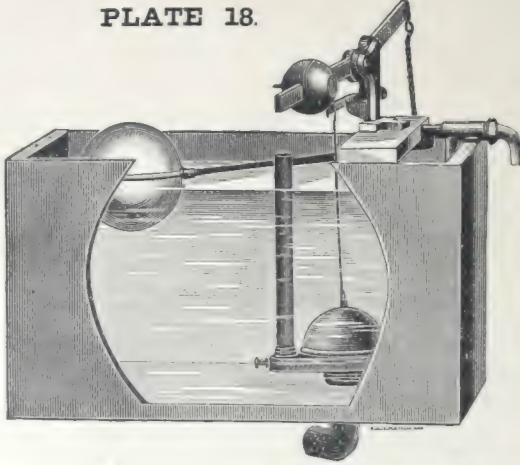
See page 6 for full description of the action of the valve.

N.B. — $1\frac{1}{4}$ -inch pipe must be used to connect to the closet.

No. 3 PRELIMINARY AND AFTER WASH COPPER-LINED CISTERN.

PLATE 18.

Size, 24 × 13 × 13.



Capacity, 16 gallons.

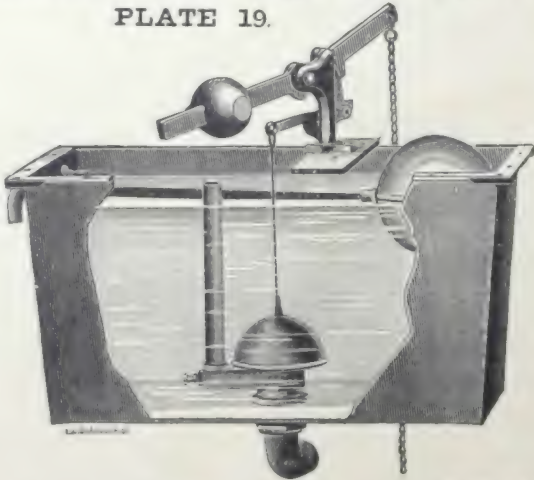
	BLACK-WALNUT SEAT.	CHERRY.
Price, with No. 1 seat (plate 8)	\$23.50	\$24.50
Price, with No. 2 seat (plate 9)	22.25	23.25
Price, with No. 3 seat (plate 10)	21.75	22.75

If seats with ornamental bronzed legs are desired, see page 12.
These cisterns are not sold without a seat. See pages 12 and 13.

No. 3 A PRELIMINARY AND AFTER WASH IRON CISTERN.

PLATE 19.

Size, 22 × 12 × 12.



Capacity, 14 gallons.

	BLACK WALNUT.	CHERRY.
Price, with No. 1 seat (plate 8)	\$21.25	\$22.25
Price, with No. 2 seat (plate 9)	20.00	21.00
Price, with No. 3 seat (plate 10)	19.50	20.50

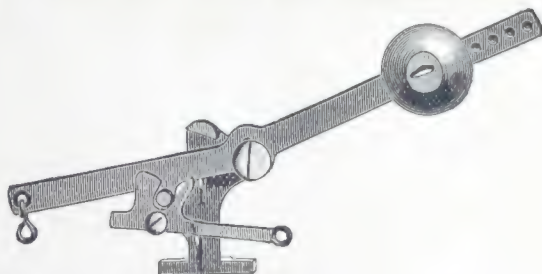
If seats with ornamental bronzed legs are desired, see page 12.
These cisterns are not sold without a seat. See pages 12 and 13.

PRELIMINARY AND AFTER WASH COPPER-LINED AND IRON CISTERNS,

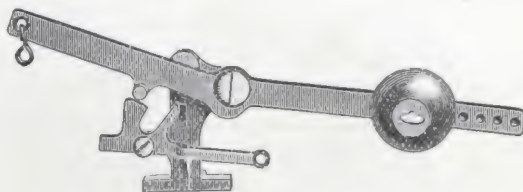
WITH UNIVERSAL FLOAT-VALVES.

These cisterns are the most perfect *preliminary or double wash* cisterns ever devised ; the valve being the same as in our other cisterns, but operated by our *Patent Double-Acting Lever*, the action of which is simple, the two washes being obtained as follows : —

On depressing the seat, the upper or weighted lever comes in contact with the short arm of the lower lever, causing the valve to be both opened and closed, discharging, during this action,



enough water to thoroughly wet all parts of the closet. When the seat is released, the valve is again opened by the dropping of the weighted lever, which passes clear of the lower lever, leaving the



valve to close as in the other cisterns, and discharging, during this action, from one to four gallons, the quantity being governed by the *regulator*.

For public places and servants' closets, the double-wash cistern is probably the most reliable method of insuring cleanliness, and preventing waste ; as it is well known that all closets that present dry surfaces should be wet before using : and the public cannot be relied upon to so use a closet, unless an automatic apparatus is provided.

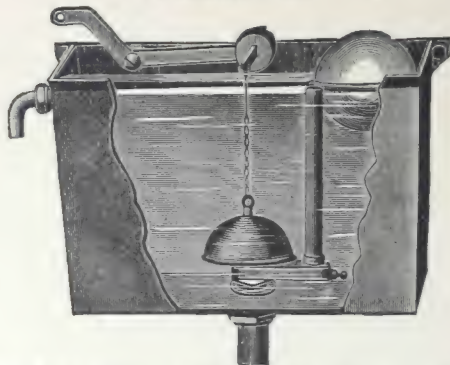
A nice adjustment of the chain is not necessary, but it is well to have the chain taut when the seat is depressed.

It is advisable also to cover the chain by a grooved strip, to protect it from malicious persons.

N.B. — The seats furnished with these cisterns are fully described on pages 12 and 13.

No. 4 A SUPPLY IRON CISTERN.

PLATE 20.



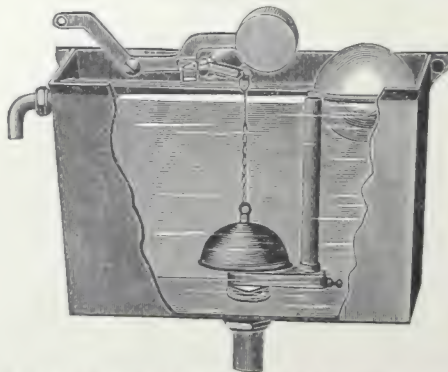
Size, 18 × 8 × 12 deep. Capacity, 7½ gallons. Price, \$8.00.
Add for air-pipe attachment for wash-out closet, 75 cents.

This small cistern is more especially adapted for use where there is an uninterrupted supply of water, and can be operated by either pull-chain, or in connection with our door-fixtures, page 15.

The valve is the same as in our other cisterns. See page 6 for full description of action of the valve.

No. 5 A AFTER-WASH, WASTE-PREVENTING, IRON CISTERN.

PLATE 21.



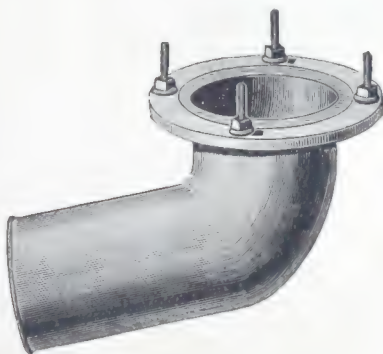
Size, 18 × 8 × 12 deep. Capacity, 7½ gallons. Price, \$10.00.

	BLACK WALNUT.	CHERRY.
Price, with No. 1 seat (plate 7)	\$16.25	\$17.25
Price, with No. 2 seat (plate 8)	15.00	16.00
Price, with No. 3 seat (plate 9)	14.50	15.50

This cistern is the same as our No. 4, excepting the valve is operated by our Patent Double Lever. It can be operated by either pull-chain or seat.
See page 6 for full description of action of valve.

FLOOR-CONNECTION,
FOR CONNECTING EARTHENWARE TRAPS TO SOIL-PIPE.

PLATE 22.



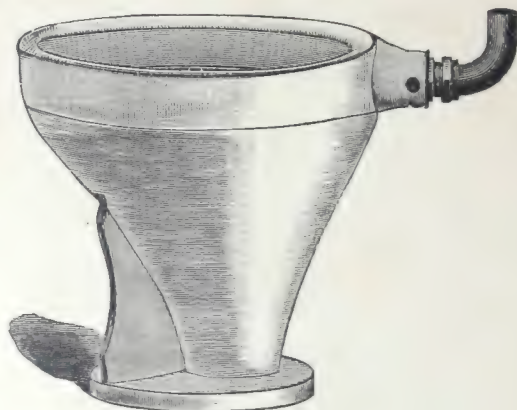
Price \$3.00

This connection is designed to insure a tight joint between the trap and soil-pipe.

The Flange, being a swivel-joint, can be adjusted to fit the position of the trap after the fitting is calked into the soil-pipe.

IMPROVED
FLUSHING-RIM LONG-OVAL EARTHENWARE HOPPER.

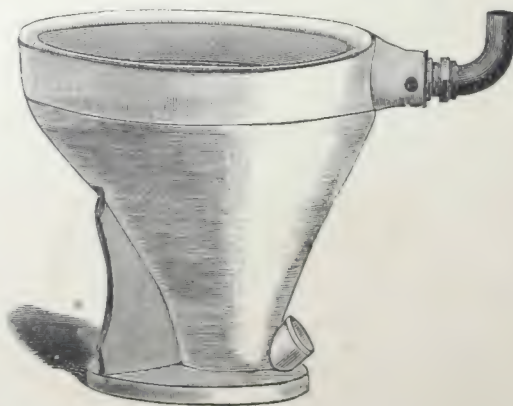
PLATE 23.



Price \$10.00

IMPROVED
FLUSHING-RIM LONG-OVAL EARTHENWARE HOPPER,
WITH VENT-ARM.

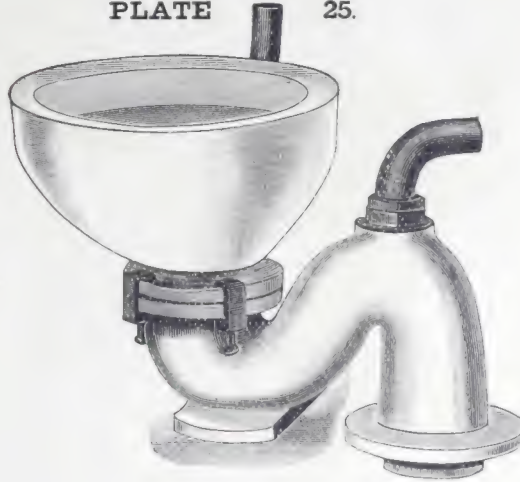
PLATE 24.



Price \$10.00

IMPROVED
FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER
AND EARTHENWARE TRAP, WITH VENT-COUPLING.

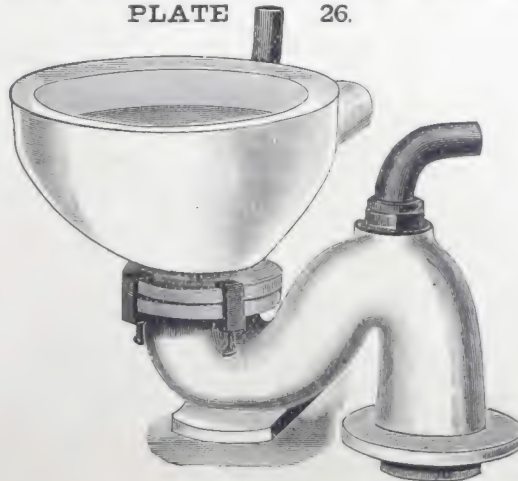
PLATE 25.



Price \$12.00
Add for floor-connection (plate 22), \$3.00.

IMPROVED
FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER,
WITH VENT-ARM, AND EARTHENWARE TRAP WITH VENT-COUPLING.

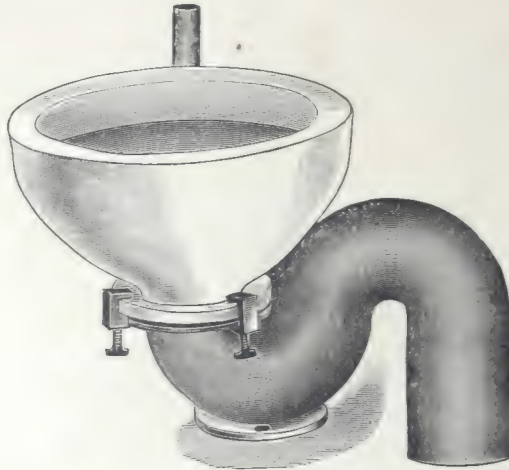
PLATE 26.



Price \$12.50
Add for floor-connection (plate 22), \$3.00.

IMPROVED
FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER,
WITH FULL S LEAD TRAP.

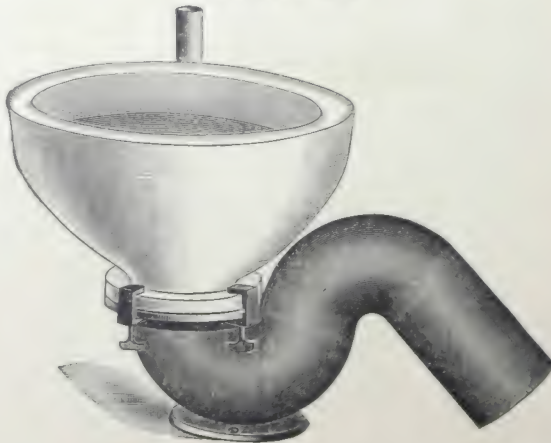
PLATE 27.



Price \$10.63
Add for vent-arm on bowl, 50 cents.

IMPROVED
FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER,
WITH $\frac{1}{4}$ -S LEAD TRAP.

PLATE 28.



Price \$10.63
Add for vent-arm on bowl, 50 cents.

IMPROVED
FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER,
WITH H-S LEAD TRAP.

PLATE 29



Price

\$10.00

Add for vent-arm and float, 30 cents.

IMPROVED
FLUSHING-RIM LONG-ROUND EARTHENWARE HOPPER.

PLATE 30



Price

\$10.00

Add for vent-arm, 30 cents.

SHORT-OVAL FLUSHING-RIM HOPPER AND TRAP.

ENAMELLED IRON.

PLATE 31.



Price	ENAMELLED HOPPER, PAINTED TRAP. \$7.25	ENAMELLED HOPPER AND ENAMELLED TRAP. \$8.50
Price with vented trap	7.75	9.00

If furnished with wood rim, add \$1.50.

LONG-OVAL FLUSHING-RIM HOPPER.

ENAMELLED IRON.

PLATE 32.



Price	\$5.50
Price with wood rim	7.00

EARTHENWARE SLOP-SAFES.

PLATE 33.



Price \$1.50

These safes can be used in connection with any of our hoppers and wash-out closets, and can be attached to any of our seats.

ADEE'S PATENT ENAMELLED SLOP-SAFES.

PLATE 34.



PLATE 35.



Price \$1.50

These safes can also be used with our hoppers and wash-out closets.

IMPROVED
 FLUSHING-RIM LONG-OVAL EARTHENWARE HOPPER,
 WITH NO. 1 SURE-SUPPLY COPPER-LINED CISTERN.

PLATE 36.



Apparatus No. 1.

PRICE.

Complete \$23.00

If seats are desired, see plates 8, 9, and 10 for prices.

If slop-safes are desired, see plates 33, 34, and 35 for prices.

The hoppers are furnished with or without ventilating-arm, as desired.
 For full description of cistern, see page 17.

IMPROVED
FLUSHING-RIM LONG-OVAL EARTHENWARE HOPPER,
 WITH NO. 1 A SURE-SUPPLY IRON CISTERN.

PLATE 37.

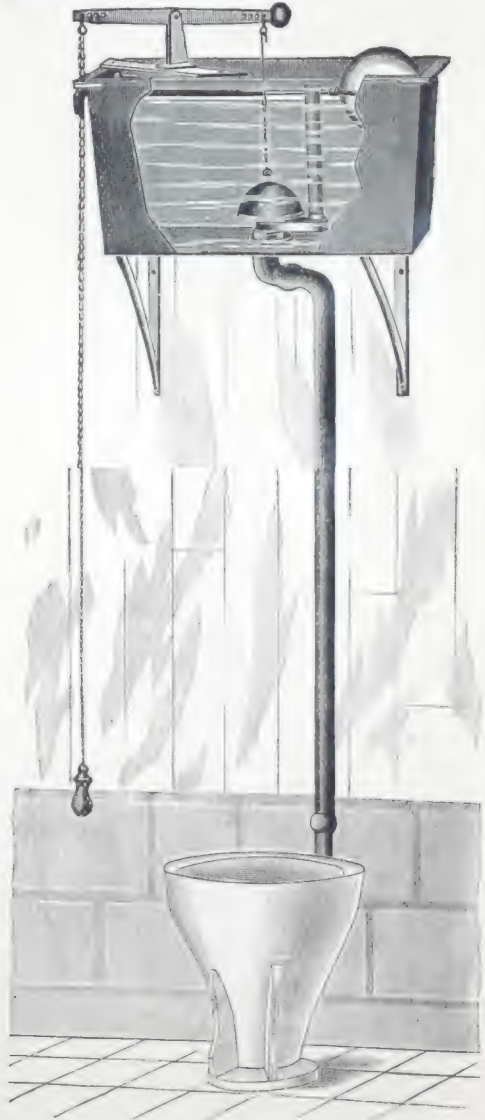
Apparatus No. 2.

PRICE.

Complete \$21.25

If seats are desired, see plates 8, 9, and 10 for prices.

If slop-safes are desired, see plates 33, 34, and 35 for prices.



The hoppers are furnished with or without ventilating-arm, as desired.
 For full description of cistern, see page 17.

IMPROVED
FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER,
 WITH NO. 1 SURE-SUPPLY COPPER-LINED CISTERN.

PLATE 38.



Apparatus No. 3.

PRICES.

Complete with earthen trap, as shown in
 cut \$25.00

Complete with S or $\frac{3}{4}$ -S lead trap, as shown
 in plates 27 and 28 23.63

Complete with $\frac{1}{2}$ -S lead trap, as shown in
 plate 29 23.00

Add for vent-arm on hopper, 50 cents.

Add for floor-connection for earthen trap, plate
 22, \$3.00.

If seats are desired, see plates 8, 9, and 10 for
 prices.

If slop-safes are desired, see plates 33, 34, and
 35 for prices.

For full description of cistern, see page 17.

IMPROVED
FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER,
 WITH NO. 1 A SURE-SUPPLY IRON CISTERN.

PLATE 39.

Apparatus No. 4.

PRICES.

Complete with earthen trap, as shown in cut, \$23.25

Complete with S or $\frac{3}{4}$ -S lead trap, as shown
 in plates 27 and 28. 21.88

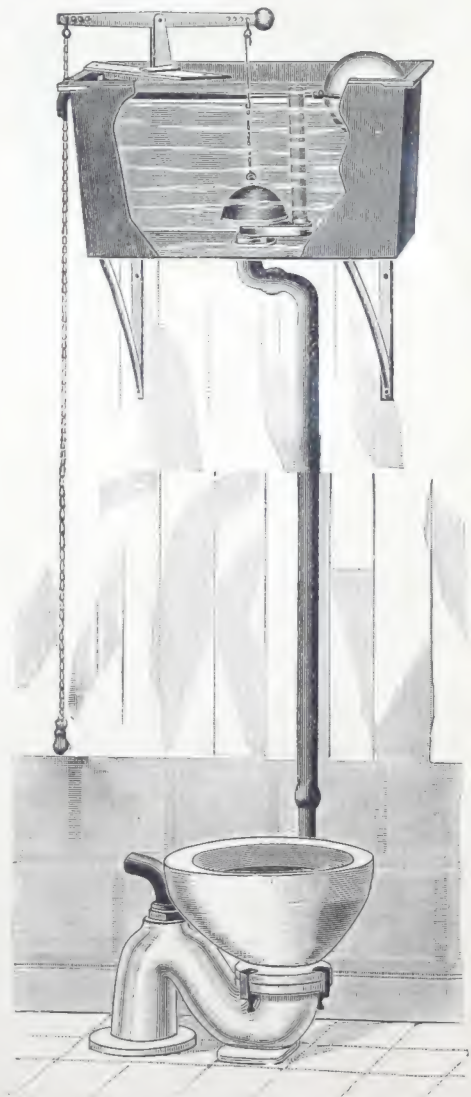
Complete with $\frac{1}{2}$ -S lead trap, as shown in
 plate 29 21.25

Add for vent-arm on hopper, 50 cents.

Add for floor-connection for earthen hopper, plate
 22, \$3.00.

If seats are desired, see plates 8, 9, and 10 for
 prices.

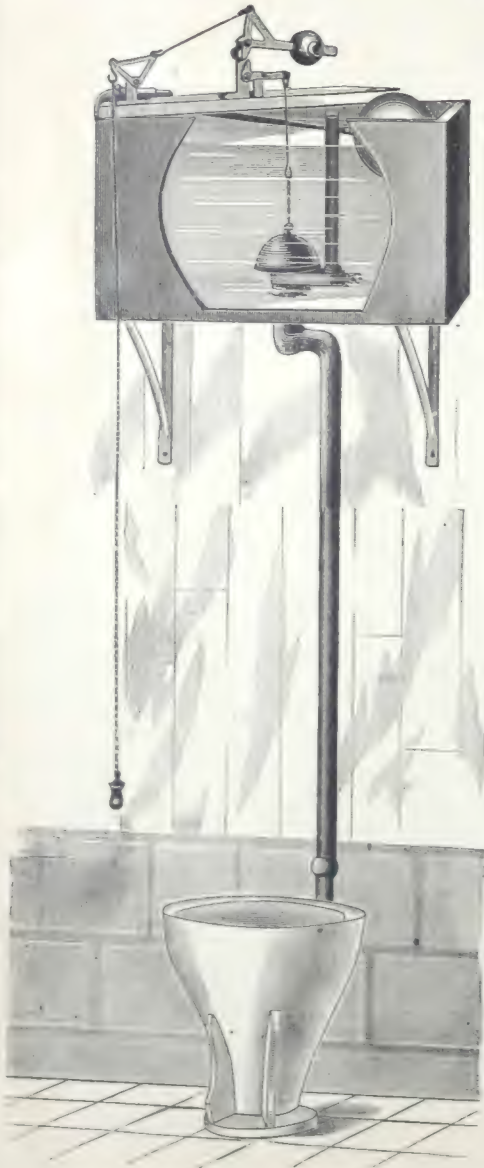
If slop-safes are desired, see plates 33, 34, and 35
 for prices.



For full description of cistern, see page 17.

IMPROVED
FLUSHING-RIM LONG-OVAL EARTHENWARE HOPPER,
 WITH NO. 2 WASTE-PREVENTING COPPER-LINED CISTERN.

PLATE 40.



Apparatus No. 5.

PRICE.

Complete \$26.00

If seats are desired, see plates 8, 9, and 10 for prices.

If slop-safes are desired, see plates 33, 34, and 35 for prices.

The hoppers are furnished with or without ventilating-arm, as desired.
 For full description of cistern, see page 21.

IMPROVED
FLUSHING-RIM LONG-OVAL EARTHENWARE HOPPER,
 WITH NO. 2 A WASTE-PREVENTING IRON CISTERN.

PLATE 41.

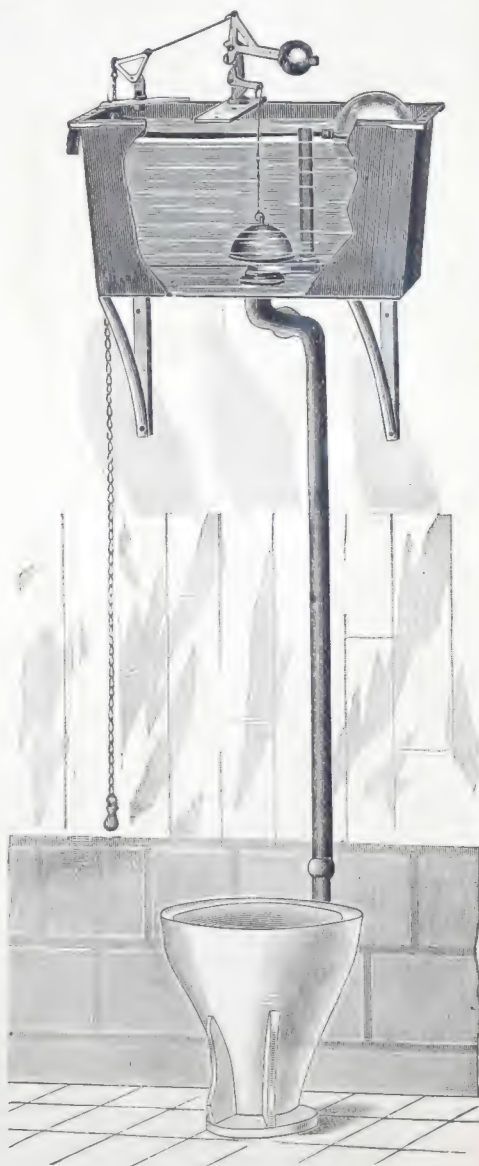
Apparatus No. 6.

PRICE.

Complete \$24.25

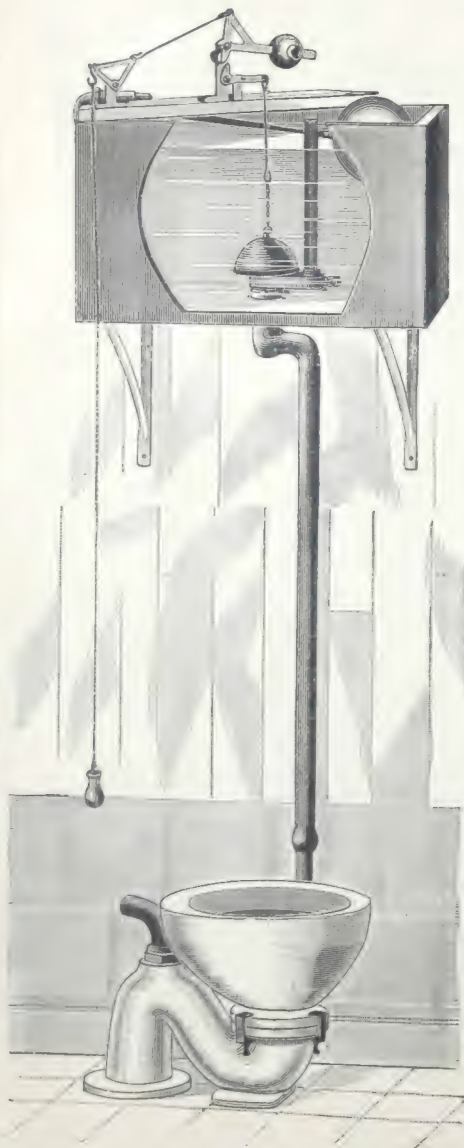
If seats are desired, see plates 8, 9, and 10 for prices.

If slop-safes are desired, see plates 33, 34, and 35 for prices.



Hoppers furnished with or without ventilating-arm, as desired.
 For full description of cistern, see page 21.

IMPROVED
FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER,
 WITH NO. 2 WASTE-PREVENTING COPPER-LINED CISTERN.

PLATE 42.**Apparatus No. 7.****PRICES.**

Complete with earthen trap, as shown in cut, \$28.00

Complete with S or $\frac{3}{4}$ -S lead trap, as shown
 in plates 27 and 28 26.63

Complete with $\frac{1}{2}$ -S lead trap, as shown in
 plate 29 26.00

Add for vent-arm on hopper, 50 cents.

Add for floor-connection for earthen trap, plate
 22, \$3.00.

If seats are desired, see plates 8, 9, and 10 for
 prices.

If slop-saves are desired, see plates 33, 34, and 35
 for prices.

For full description of cistern, see page 21.

IMPROVED
FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER,
 WITH NO. 2 A WASTE-PREVENTING IRON CISTERN.

PLATE 43.

Apparatus No. 8.

PRICES.

Complete with earthen trap, as shown in cut, \$26.25

Complete with S or $\frac{3}{4}$ -S lead trap, as shown
 in plates 27 and 28 24.88

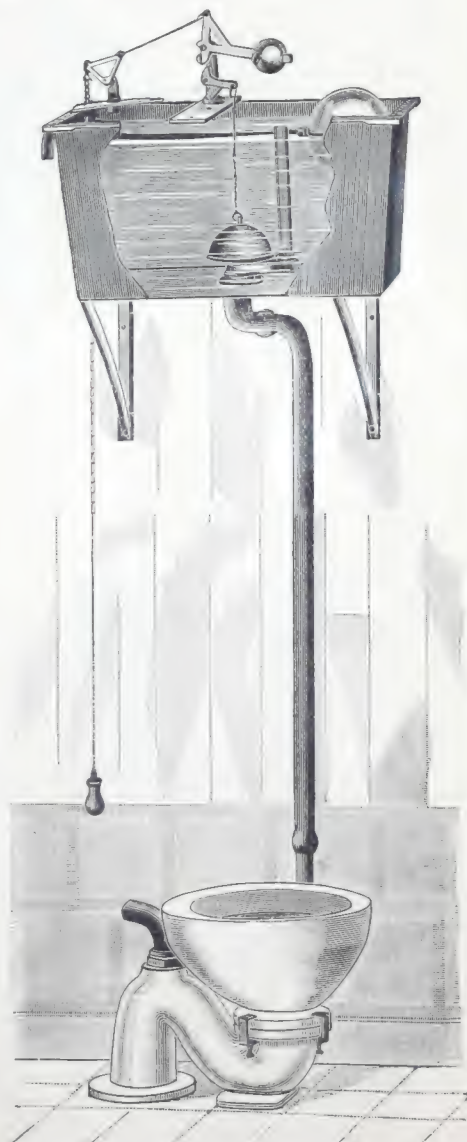
Complete with $\frac{1}{2}$ -S lead trap, as shown in
 plate 29 24.25

Add for vent-arm on hopper, 50 cents.

Add for floor-connection for earthen trap, plate
 22, \$3.00.

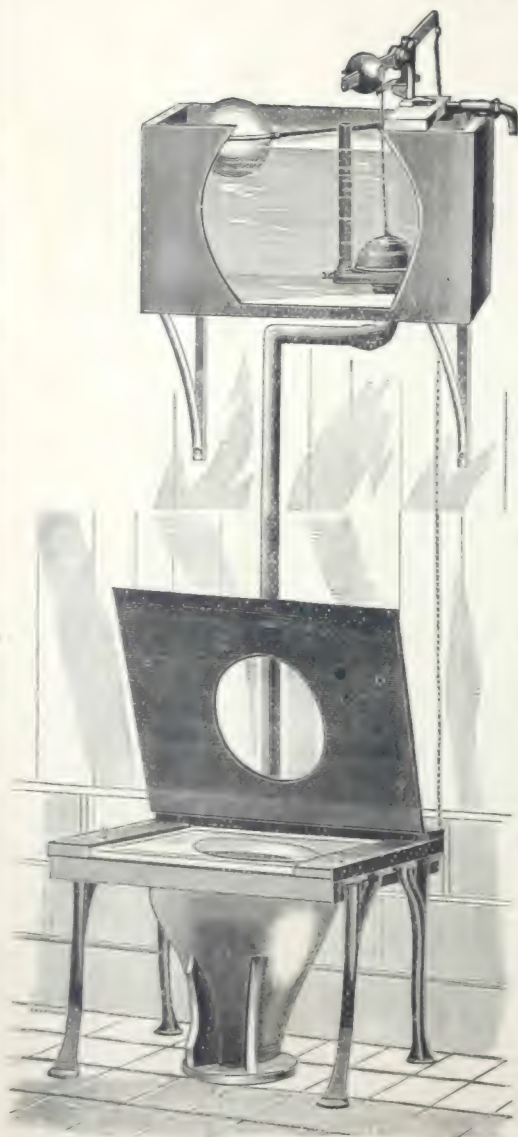
If seats are desired, see plates 8, 9, and 10 for
 prices.

If slop-safes are desired, see plates 33, 34, and
 35 for prices.



For full description of cistern, see page 21.

IMPROVED
FLUSHING-RIM LONG-OVAL EARTHENWARE HOPPER,
 WITH NO. 3 DOUBLE-WASH COPPER-LINED CISTERN, NO. 1 BLACK-WALNUT SEAT
 WITH GALVANIZED LEGS, AND EARTHENWARE SLOP-SAFE.

PLATE 44.**Apparatus No. 9.****PRICES.**

Complete with No. 1 seat, as shown in cut . \$37.50

Complete with No. 2 seat, as shown in plate
 9 36.25

Complete with No. 3 seat; as shown in plate
 10 35.75

If slop-safe is not desired, deduct \$3.50.

If seats with ornamental bronzed legs are preferred, see plates 8½ and 9 for prices.

Hoppers furnished with or without ventilating-arm, as desired.

For full description of cistern, see page 23.

IMPROVED

FLUSHING-RIM LONG-OVAL EARTHENWARE HOPPER,

WITH NO. 3 A DOUBLE-WASH IRON CISTERN, NO. 1 BLACK-WALNUT SEAT WITH GALVANIZED LEGS, AND EARTHENWARE SLOP-SAFE.

PLATE 45.

Apparatus No. 10.

PRICES.

Complete with No. 1 seat, as shown in cut 8, \$35.25

Complete with No. 2 seat, as shown in plate

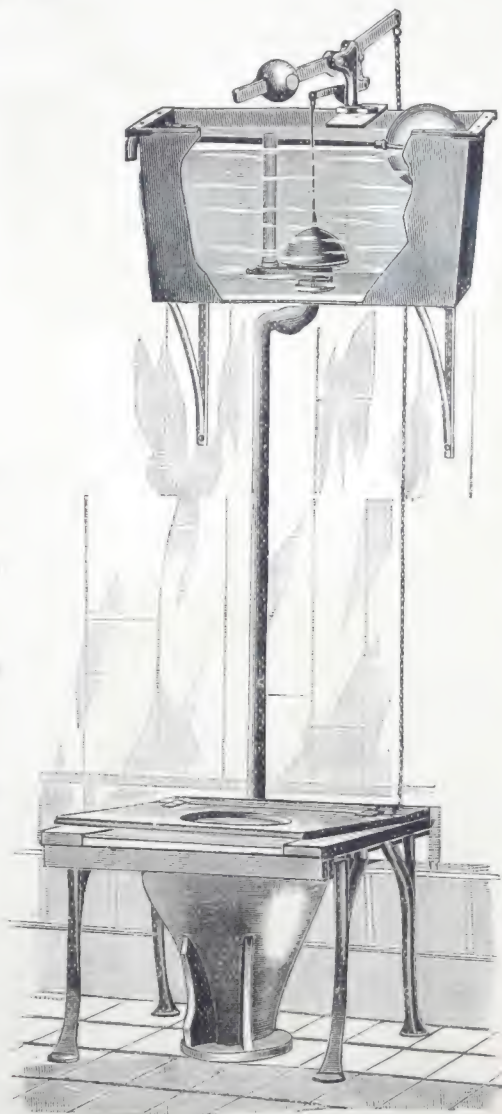
9 34.00

Complete with No. 3 seat, as shown in plate

10 33.50

If slop-safe is not desired, deduct \$3.50.

If seats with ornamental bronzed legs are preferred, see plates 8½ and 9 for prices.



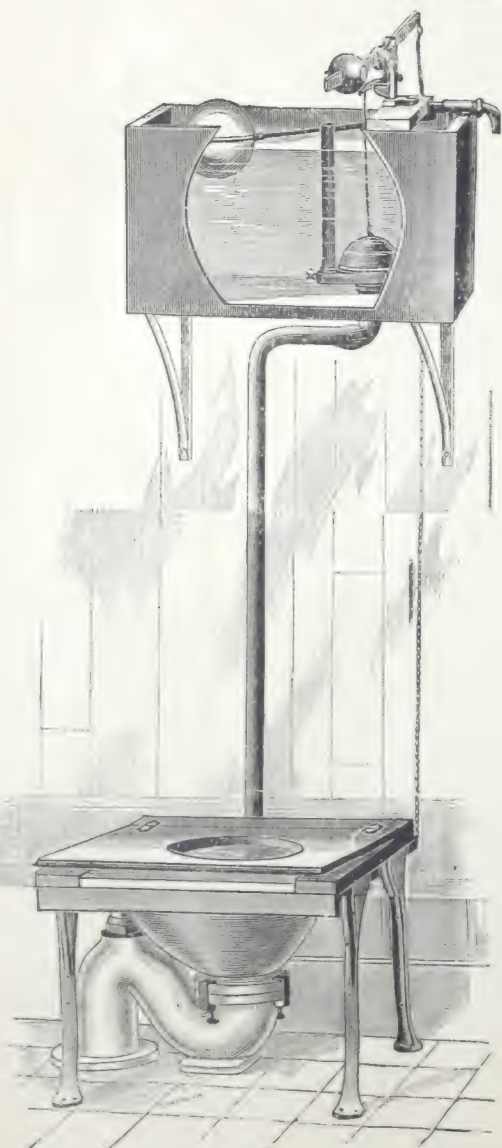
Hoppers furnished with or without ventilating-arm, as desired.

For full description of cistern, see page 23.

IMPROVED FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER,

WITH NO. 3 DOUBLE-WASH COPPER-LINED CISTERN, NO. 1 SEAT
WITH GALVANIZED LEGS, AND EARTHENWARE SAFE.

PLATE 46.



Apparatus No. II.

PRICES.

Complete with earthen trap, as shown in
cut \$39.50

Complete with S or $\frac{3}{4}$ -S lead trap, as
shown in plates 27 and 28 . . . 38.13

Complete with $\frac{1}{2}$ -S lead trap, as shown
in plate 29 37.50

Add for vent-arm on hopper, 50 cents.

Add for floor-connection for earthen trap,
plate 22, \$3.00.

If slop-safe is not desired, deduct \$3.50.

If other pattern seats are preferred, see
plates 8, 9, and 10 for prices.

For full description of cistern, see page 23.

IMPROVED FLUSHING-RIM SHORT-OVAL EARTHENWARE HOPPER,

WITH NO. 3 A DOUBLE-WASH IRON CISTERN, NO. 1 SEAT
WITH GALVANIZED LEGS, AND EARTHENWARE SAFE.

PLATE 47.

Apparatus No. 12.

PRICES.

Complete with earthen trap, as shown in
cut \$37.25

Complete with S or $\frac{3}{4}$ -S lead trap, as shown
in plates 27 and 28 35.88

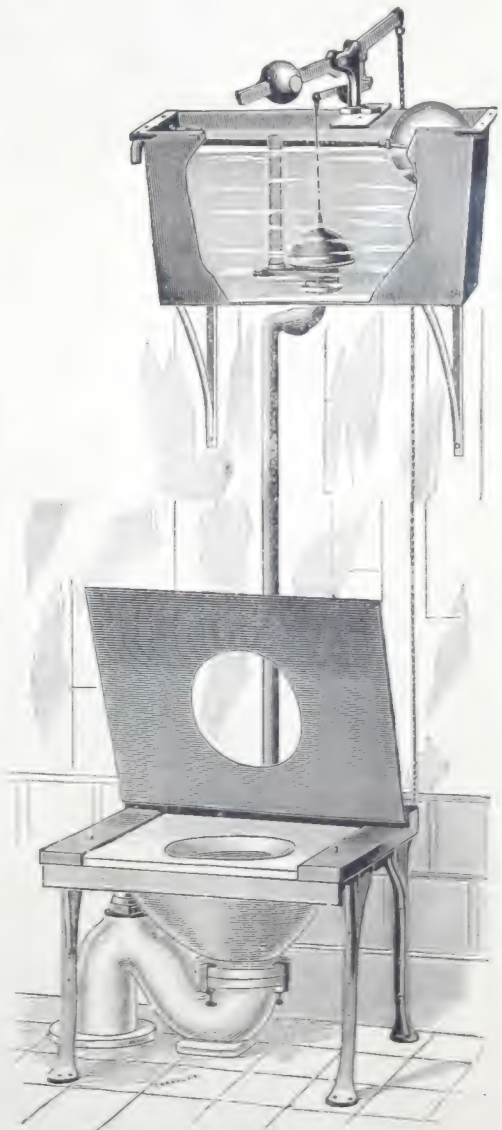
Complete with $\frac{1}{2}$ -S lead trap, as shown in
plate 29 35.25

Add for vent-arm on hopper, 50 cents.

Add for floor-connection for earthen trap, plate
12, \$3.00.

If slop-safe is not desired, deduct \$3.50.

If other pattern seats are preferred, see plates 8,
9, and 10 for prices.



For full description of cistern, see page 23.

CROTON WASH-OUT CLOSET,
WITH NO. 1 SURE-SUPPLY COPPER-LINED CISTERN.

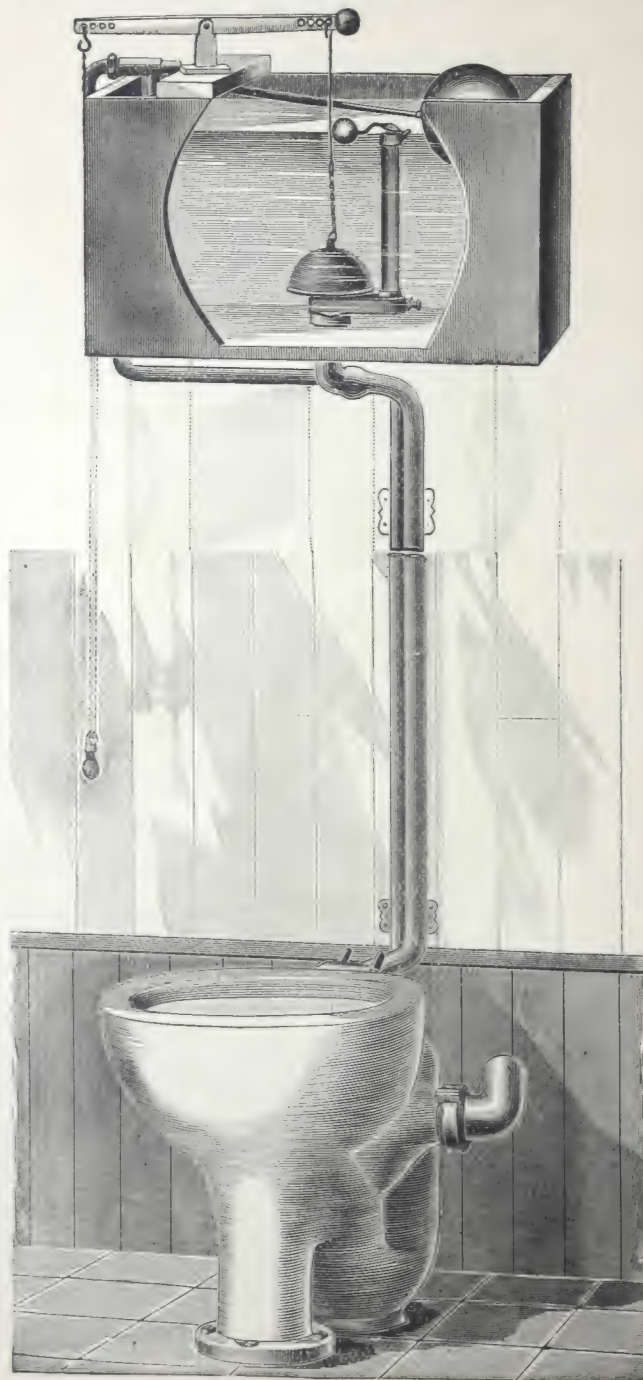


PLATE 48.

Apparatus
No. 13.

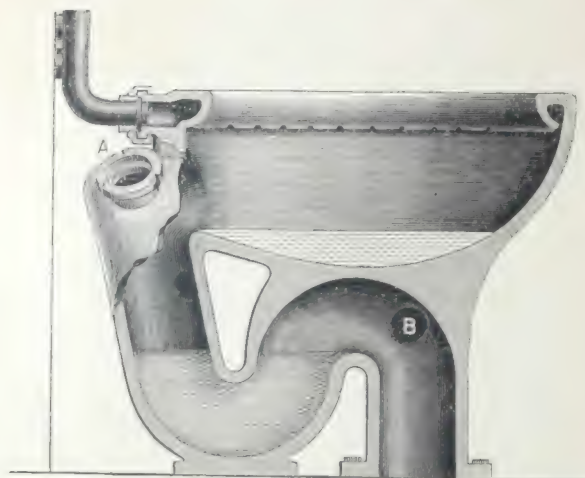
This closet is made in one piece, and is of the best earthenware. For prices, see page 46.

THE "CROTON"
WASH-OUT AND VENTILATING WATER-CLOSET.



FOR PRICES, SEE PAGE 46.

SECTION OF "CROTON" WASH-OUT CLOSET.



PRICES.

"Croton" (All Earthenware Wash-out Closet)	\$28.00
" with 1 Copper-lined Cistern	41.75
" " 2 " " "	44.75
" " 1 A Iron Cistern	40.00
" " 2 A " "	43.00

If slop-saves are desired, see plates 33, 34, and 35.

If seats are desired, see plates 8, 9, and 10.

**IMPROVED
FLUSHING-RIM LONG-ROUND EARTHENWARE HOPPER,
WITH NO. 4 A SURE-SUPPLY IRON CISTERN.**

PLATE 50.

Apparatus No. 15.

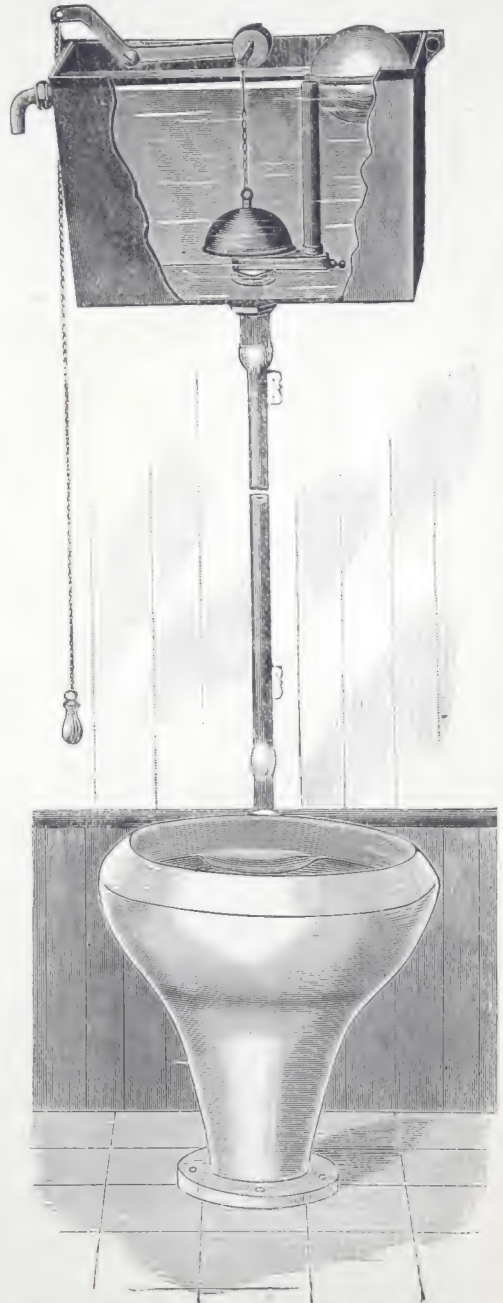
PRICES.

Complete \$15.00

Complete with vent-arm . . . 16.00

If seats are desired, see plates 8, 9, and 10 for prices.

If slop-safes are desired, see plates 33, 34, and 35 for prices.



This Cistern is the same in its operations as our No. 1 A, and, where there is an uninterrupted supply, is equally as effective.

IMPROVED
FLUSHING-RIM LONG-ROUND EARTHENWARE HOPPER,
WITH NO. 5 A WASTE-PREVENTING IRON CISTERN.

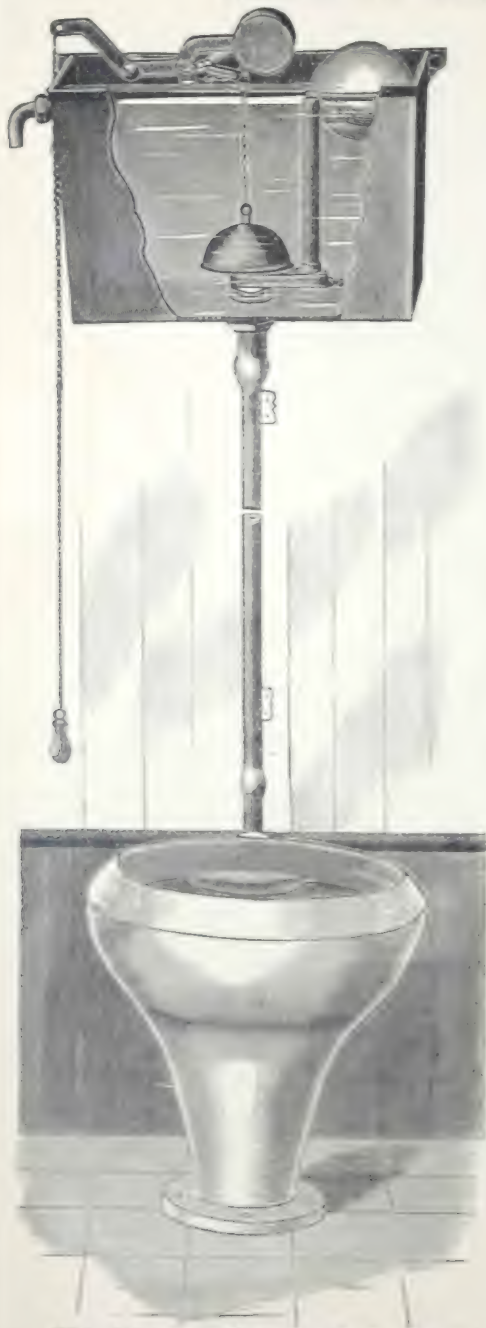


PLATE 51.

Apparatus No. 16.

PRICES.

Complete	\$17.00
Complete with vent-arm	18.00

If seats are desired, see plates 8, 9, and 10 for prices.

If slop-saves are desired, see plates 33, 34, and 35 for prices.

This Cistern is the same in its operation as our No. 2 A, and can be operated by a seat if desired.

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CCA

187-6

WHAT HISTORY TELLS US OF THE BATH

they carried their habits of bathing. As for Rome itself, here was a period of world power approaching that of Babylon. For nearly a thousand years Rome was supreme. Finally the Empire became so huge as to become unwieldy. In those days of slow travel and communication the territory dominated from the Tiber became too vast to permit of centralized control and Rome fell.

With the downfall of Rome in 476 A. D. came the Dark Ages. Art, literature, drama, statesmanship, sanitation, everything fell beneath the blighting pall of barbarism. Then came the Renaissance, early in the 16th century, and once more the tide turned to sweep civilization upward to the heights it has achieved today. High standards of sanitation played their part in the revival. People became cleaner. In Bath Street, London, in 1679, was opened the first hot water bath house England had seen since the Romans left in 420 A. D.

In the 19th century bathtubs of a primitive type with running water began to make their appearance in this country. The bathtub brought the world back to classic standards, but the restless inventive genius of America was not satisfied. Fastidious people noted the rims of dirt that encircled the bathtub after using and they resented the idea of sitting in tubs thus polluted. It was unsanitary. And so, with the 20th century the shower bath came into being. The joy of bathing in clear, sparkling, running water was quickly recognized as a truly sanitary method of bathing, and the shower bath has been accepted nationally.

THE AMERICAN PIN COMPANY — WATERBURY, CONNECTICUT
DIVISION SCOVILL MANUFACTURING COMPANY

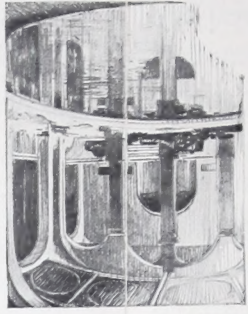
SINCE the days of Babylon the bath has been an important factor among the dominant races of the earth. Down through the ages history indicates that cleanliness and power go hand in hand.

For nearly 2,000 years, from 2340 to 538 B. C., Babylon was, with hardly a break, the supreme world power—the conceded center of civilization. Very high standards of cleanliness prevailed among all Babylonians—both Jew and Gentile. The Babylonian Talmud, the code by which Babylonian Jews ordered their daily lives, gave minute instructions regarding the care of the person, daily bathing, etc.

Today traces of tiled baths, concrete aqueducts and elaborate systems for conveying water are still found in the vast ruins of this once proud city. It seems almost a symbol that when Babylon finally fell, Cyrus, the Persian, gained entry into the city, according to tradition, by diverting the river which flowed through it and leading his cohorts through the empty channel.

Persia fell before the arms of Greece. In many respects Greek civilization was the highest the world has ever witnessed. The Greeks spent hours in their baths. Scrupulous cleanliness was almost a religion with them. Greek literature is filled with references to the baths which served almost as clubs for the ancient Athenians.

Then came Rome's rise to power. The Romans developed a high civilization, became apostles of cleanliness and conquered the world. And, to the uttermost reaches of the Roman Empire



Ancient Roman Baths at Bath, England